

CLAIMS

WHAT IS CLAIMED IS:

1. A projection television set comprising:

a screen;

5 a mirror to reflect light onto the screen;

an enclosure comprising

an upper compartment to house the mirror and the screen, and

10 a lower compartment attached to the upper compartment, the lower compartment comprising a front panel, a rear panel, and a plurality of side panels wherein at least two side panels further comprise an angled top surface, and

an optical unit comprising a plurality of projection assemblies and a bracket mounted on the top surface of the at least two side panels.

2. The projection television set of claim 1 further comprising a plurality of

15 attachment elements to attach the bracket of the optical unit to the side panels of the lower compartment.

3. The projection television set of claim 1 wherein the angled top surface of the side panels of the lower compartment is cut at an angle to aim the optical unit at the mirror when the
20 bracket is attached to the angled top surface.

4. The projection television set of claim 1 wherein the bracket comprises a first end and a second end, each end including a horizontal extension placed on top of the angled top

surface of a side panel of the lower compartment, and a vertical wall placed adjacent the side panel.

5 5. The projection television set of claim 4 wherein the horizontal extension and the vertical wall of each end of the bracket are oriented at an approximately ninety degree angle to each other.

10 6. The projection television set of claim 4 wherein the vertical wall of each end of the bracket further includes a plurality of openings through which attachment elements are inserted.

15 7. The projection television set of claim 4 wherein each vertical wall further includes a plurality of openings for insertion of attachment elements and each vertical wall is oriented at an approximately ninety degree angle from each respective horizontal extension of each end of the bracket.

20 8. A projection television set comprising:
a screen;
a mirror to reflect light onto the screen;
an enclosure comprising
an upper compartment to house the mirror and the screen, and

a lower compartment attached to the upper compartment, the lower compartment comprising a front panel, a rear panel, and a plurality of side panels wherein at least two side panels have angled openings; and

an optical unit comprising a plurality of projection assemblies and a bracket mounted
5 within the angled openings of the at least two side panels.

9. The projection television set of claim 8 wherein the bracket comprises a first end and a second end, the ends and the angled openings of the side panels of the lower compartment being substantially equal in shape and size.

10. The projection television set of claim 9 further comprising an adhesive to secure the ends of the bracket to the side panels, wherein the ends are inserted within the angled openings of the side panels.

15 11. The projection television set of claim 8 wherein the angled openings are angled to aim the optical unit at the mirror when the bracket of the optical unit is inserted within the angled openings.

20 12. An enclosure for a projection television set comprising a mirror, a screen, and an optical unit, the optical unit comprising a plurality of projection assemblies and a bracket having a first end and a second end mounted to the enclosure, the enclosure comprising:

an upper compartment comprising a front panel, a rear panel, and a plurality of side panels, the upper compartment configured to house the mirror and the screen, and

a lower compartment attached to the upper compartment, the lower compartment comprising a front panel, a rear panel, and a plurality of side panels wherein at least two side panels further comprise an attachment region with the optical unit attachable thereto.

5 13. The enclosure of claim 12 wherein the attachment region of the side panels comprises an angled surface for attachment of the bracket of the optical unit thereto, the angled surface oriented to aim the projection assemblies of the optical unit toward the mirror of the projection television set.

10 14. The enclosure of claim 12 wherein the attachment region of the side panels comprises an angled opening for insertion of the ends of the bracket of the optical unit therein, wherein the bracket is aimed toward the mirror when inserted into the angled opening.

15 15. The enclosure of claim 12 wherein the attachment region of the side panels comprises an elongate body having a top surface, a bottom surface, a first end, a second end, and a notch extending between the first and second ends along the top surface of the elongate body, wherein the notch engages the bracket of the optical unit.

20 16. The enclosure of claim 15 wherein the elongate body is positioned on the side panels to aim the projection assemblies of the optical unit toward the mirror.

17. An optical unit bracket for a projection television set comprising:
a body,

a plurality of projection openings extending through the body,
a first end attachable to a side panel of a projection television set enclosure, and
a second end attachable to a side panel of a projection television set enclosure, the second
end disposed opposite the first end.

5

18. The bracket of claim 17 wherein the first and second ends each comprise:
a horizontal extension placed on top of an angled top surface of a side panel; and
a vertical wall placed adjacent the side panel.

10

19. The bracket of claim 18 wherein the horizontal extension is oriented at an
approximately ninety degree angle to the vertical wall.

20. The bracket of claim 18 wherein the vertical wall includes a plurality of openings
for insertion of attachment elements therethrough.

15

21. The bracket of claim 17 wherein each side panel of the projection television set
further comprises an angled opening, and the first and second ends of the bracket are
substantially the same size and shape as the angled opening.